

COMPETENCE 9 – OIC ENGINE

Which of the following statements concerning braze welding is/are correct?	Braze welding is an exceptionally good method of repairing malleable (special heattreated) iron.
Which of the following statements concerning braze welding is/are correct?	Braze welding is an acceptable method of repairing malleable iron and mild steel.
If the intercooler relief valve lifts while an air compressor is operating under load, you should check for _____.	leaking high pressure discharge valves
Acetylene should never be used at pressures in excess of 15 psig because the _____.	slightest shock could cause an explosion
The tool used to makeup connection fittings for small diameter copper tubing is called a/an _____.	flaring tool
If a small auxiliary diesel engine will not crank but can be barred over, the trouble may be due to _____.	Corrosion of starting battery terminal connections

Engine operating conditions may be indicated by the color of the exhaust smoke. Black smoke could indicate _____.	an overloaded engine
You should never watch the arc generated during electric arc welder with the naked eye because _____.	serious flash burns will result
When a waste heat boiler is installed in the exhaust gas bypass would be used _____.	at low loads to prevent corrosion in the boiler
An exhaust gas bypass is installed on a waste heat boiler in order to _____.	minimize moisture condensation in the boiler gas passages at low loads
Which of the following problems would be the probable cause for the faulty operation of areciprocating air compressor suction valve ?	faulty operation of a cylinder unloader
If the drive belts on an air compressor were squealing during start up , you should _____.	check the operation of the unloaders
A reciprocating air compressor is running roughly and vibrating excessively, indicating that the _____.	foundation bolts are loose

A squeaking sound occurring from within an operating reciprocating air compressor is an indication of_____.	tight compressor bearings
When arc welding , the flux that covers the electrode is used to _____.	reduce oxidation
Thermocouple pyrometers are used on large, main propulsion diesel engines to indicate the temperature of the _____.	exhaust gases at various locations
A dirty intercooler in the ship service air compressor will result in _____.	higher than normal power consumption
Protective equipment to be used while carrying out oxy-acetylene welding should always include _____.	tinted goggles
Critical speeds occurring within the operating speed range of a main propulsion diesel engine may be changed, or have their damaging effects reduced by a/an _____.	definer or viscous fluid damper
The leaking valves in a low pressure , reciprocating, air compressor can result from _____.	abrasion by dust and dirt

Black smoke exhausting from a diesel engine may be caused by _____.	a clogged air cleaner
Which of the following statements is correct concerning welding sequences?	First, weld the joints that will tend to contract the most.
Cylinder inlet valve failure in a low pressure air compressor can be caused by _____.	mechanical failure in the unloader
When securing an oxyacetylene outfit for an extended period, you should close the _____.	cylinder valves and close torch valves when pressure in hoses and regulators is zero
White smoke exhausting from a diesel engine can be caused by a _____.	cracked cylinder liner
In order to minimize distortion in a weldment due to shrinkage, you should _____. I. use intermittent welds rather than continuous welds wherever possible II. make fewer passes with large electrodes as opposed to many passes with small electrodes III. use restraining forces such as clamps, jigs, and fixtures	I, II & III
Careful handling compressed gas bottles should include _____. I. stowing, to avoid them from crashing into one another II. keeping them away from flame, high heat, and direct sunlight III.	I, II & III

keeping the valve protection caps in place	
In certain circumstances, weldments are preheated before each pass to _____.	reduce internal stresses
Excessive lube oil consumption by a reciprocating air compressor can be caused by _____.	carrying the oil level higher than normal
Combustion knock occurring in a diesel engine can be caused by _____.	Low coolant temperature
When welding or burning with an oxy-acetylene torch, _____.	never allow more than 15 PSIG pressure in the acetylene hose
A flare-type tubing connector is used in the hydraulic hatch-cover system and has developed a slight leak. To stop the leak you should _____.	shut down the power unit and use two wrenches to avoid damaging the tubing when tightening
Excessive lube oil consumption by a reciprocating air compressor is an indication of _____.	worn or broken piston rings

If an electric motor driven air compressor fails to start, it may be due to a _____.	tripped overload relay
During a routine round of a diesel engine generator, you observe a low oil level in the governor sump. If there is no visible sign of external leakage, you should suspect the cause to be a/an _____.	Leakage through the governor drive shaft oil seal
If an electric motor driven air compressor fails to start, it may be due to a _____.	tripped overload relay
The possible cause of fuel oil accumulation in boiler casing is _____.	dripping atomizers
Combustion gas venting through the expansion tank could be caused by a _____.	cracked cylinder head
If a diesel engine is smoking excessively under load, the cause could be _____.	plugged injector holes
The loss of a diesel engine cylinder air charge through leaky valves, pistons rings, worn or scored liners, would be indicated by which of the following sets of exhaust of conditions?	Low compression pressure and high exhaust temperature

When welding with an oxyacetylene outfit, _____.	open the acetylene cylinder valve only ¼ to ½ turn and leave the wrench on the valve stem
Why is a chemical covering applied to a weldingstick electrode, rather than using a bare electrode?	Shield the arc during the welding process to prevent oxidation.
One cause of leaky valves in a low pressure air compressor may be attributed to _____.	excessive operating hours without carrying out preventive maintenance
A leaking suction valve in the second stage of a two stage, high pressure, air compressor can cause excessively high _____.	first stage discharge pressure
Soft solders have relatively low melting points and consist mainly of _____.	lead base alloys
White smoke issuing from the exhaust of an auxiliary diesel engine could mean _____.	the engine is cold
Which of the following is true concerning the hose threads on compressed gas oxy-acetylene regulators and torches?	The torch oxygen inlet hose thread connection is "right handed"

An acetylene pressure regulator should never be adjusted to maintain pressures exceeding 15 psig (103.4 kPa) because _____.	this gas become extremely unstable under this condition
In oxy-acetylene welding outfit, each cylinder has a regulator and two pressure gages. One pressure gage indicates cylinder pressure and the other gage is used to indicate _____.	hose pressure
When welding mild steel with a shielded metal-arc electrode, and getting only shallow penetration, you should _____.	increase the amperage
Which of the following practices is considered to be safe for the handling and use of compressed gas cylinders?	The storage of the cylinders in a well-ventilated compartment.
Black smoke exhausting from an operating diesel engine is an indication of poor combustion which may be caused by _____.	clogged air intake passages